

AC DermaPeptide Warming PF Efficacy Data

Code: 20458PF
INCI Name: Lactobacillus/Capsicum Frutescens Fruit Ferment Extract
CAS #: 85940-30-3
EINECS #: 288-920-0

Name of Study	Results
In-vivo Circulation Assay	The results indicate that AC DermaPeptide Warming PF effectively increases circulation. The control treatment of 1% non-fermented capsicum extract did not effectively increase circulation because it does not contain capsaicin, which is insoluble in water. The results support the hypothesis that the fermentation process creates a water-soluble functionally active capsaicinoid that is capable of increasing circulation.



AC DermaPeptide Warming PF *in vivo* Circulation Assay

info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

Abstract

AC DermaPeptide Warming PF is a *Capsicum frutescens* extract that is fermented with *Lactobacillus lactis*. The process is intended to create a capsaicinoid fraction that functions like capsaicin to increase circulation without causing irritation. This study is intended to quantitatively determine the ability of AC DermaPeptide Warming PF to enhance circulation.

Materials and Methods

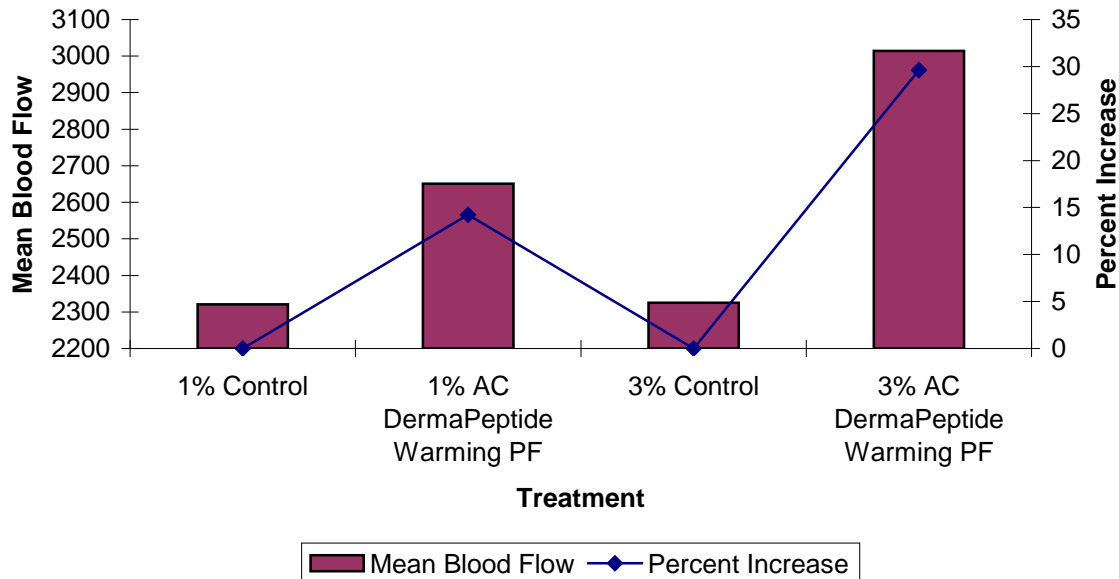
A Periscan PIM II Perfusion Laser Doppler Imaging system was used to non-invasively determine an increase in dermal circulation. A 5-subject panel consisting of 5 Caucasian females between the ages of 32 and 43 was assembled and provided with two aqueous solutions, one containing 1% of the test material (AC DermaPeptide Warming PF, lot#: EN081024-C) and the other containing 3% of the test material. As a control, 1 and 3% solutions of a non-fermented capsicum extract were also applied.

Panelists were subjected to a dry down phase for 3 days prior to the study's commencement. The test area was located on the volar forearm region between the wrist and elbow. A gentian violet surgical skin marker and standard template delineated two 2cm by 2cm (4 cm²) test sites. Both test materials were applied at a concentration of 2.0 mg/cm² for three consecutive days.

Results

	1% Control	1% Variable	3% Control	3% Variable
Mean Blood Flow	2325	2651	2328	3004
Percent Increase	0	14	0	30

Mean Changes in Circulation



Discussion

The results indicate that AC DermaPeptide Warming PF effectively increases circulation. The control treatment of 1% non-fermented capsicum extract did not effectively increase circulation because it does not contain capsaicin, which is insoluble in water. The results support the hypothesis that the fermentation process creates a water-soluble functionally active capsaicinoid that is capable of increasing circulation.

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